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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,605	08/22/2003	Domenick Vitulli	N81575/LPK	9806
1333 7590 08/31/2010 EASTMAN KODAK COMPANY PATENT LEGAL STAFF 343 STATE STREET ROCHESTER, NY 14650-2201			EXAMINER HAYLES, ASHIFORD S	
			ART UNIT 3687	PAPER NUMBER
			MAIL DATE 08/31/2010	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/646,605

Applicant(s)

VITULLI ET AL.

Examiner

ASHFORD HAYLES

Art Unit

3687

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 June 2010.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-18 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 22 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SI.08)
Paper No(s)/Mail Date 6/21/2010
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 21, 2010 has been entered.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1, 2, 11-14, and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (PG PUB 2003/0172072) in view of Inami et al. (2003/0040984).**

As per Claim 1, Smith discloses an inventory management system for at least one piece of equipment requiring routine maintenance for a plurality of items (§ [008] discusses a method and a system for automatically ordering replacement of consumable parts of a system), each of said items being associated with a respective parameter that provides an estimate of servicing needs for said item (§ [008] discusses the method

includes the steps of monitoring at least one parameter for a part of the system), said system comprising:

an inventory of replacements for said items (Such as inventory tracked in the inventory database 104 shown in Figure 1);

a computational element operatively coupled to said at least one piece of equipment and to each of said parameters (See Figure 2, Appliance Controller 202 which is coupled to appliance, construed to be a computational element); and

a tracking device operatively coupled to said computational element to derive a criteria to generate at least one order form that details current and future requirements of said items for said piece of equipment that are stocked within said inventory (See Figure 2, Part Monitor 204 which is incorporated to Appliance Controller 202, and communicates with Replacement Part Order System 100 via Communication Unit 208 found in [0032]).

However, Smith fails to disclose wherein said computational element includes a dormancy feature for at least one of said plurality of items, the dormancy feature being activated so that an associated parameter for one or more of the plurality of items is placed in a dormant state so such associated parameters do not become a trigger point for the tracking device to generate an order for said one or more items.

Inami et al. teaches a method of preventing redundant orders by the second and subsequent remaining amount detection processes for a single cartridge (pg.5, ¶ [0076]).

Inami et al. further teaches the number of printed dots is accumulated (pixel count) to have a cancel timing of remaining amount detection as a start point, and whether or not the order placement system is launched is determined in accordance with the remaining amount detection and its accumulated value (pg.5, ¶ [0077]), where the pixel count value is used as a reference upon determining whether or not the order placement system is launched, and the order placement system is allowed to be launched after timing t_P at which the pixel count value has reached a value when toner in the developing device has been consumed about 50%. That is, the order placement system is inhibited from being launched during a period T_h from timing t_L of remaining amount detection until timing t_P at which the pixel count value has reached a value when toner in the developing device has been consumed about 50% (pg.5, ¶ [0079]). Thus the remaining pixel amount detection and its accumulated pixel value are used as a parameter for an item such as a single cartridge, which inhibits the order placement system from being launched and redundant orders of an expendable are prevented.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the ability to inhibit the order placement system as in Inami et al. in the system executing the method of Smith with the motivation of offering data associated with image formation is accumulated to have a timing associated with order placement as a trigger (Abstract) as taught by Inami et al. over that of Smith.

As per Claim 2, Smith disclose a means for at least one order form to be directed to a supplier of replacement items, at a location different from the one piece of

equipment (§ [0036] discloses an order form that can be received by the appliance controller forwarded to the replacement part order system via the appliance Communications Unit 208, where the order form contains part number, account information and shipping information).

As per Claim 11, Smith discloses inventory management system wherein the piece of equipment is a printing press (§ [0025] discusses a printer).

As per Claim 12, Smith discloses an inventory management system wherein said criteria includes at least an expected life for each of said items (§ [0030] discusses a lifespan parameter which Examiner construes to be an expected life of the item, such as life of a light bulb).

As per Claim 13 Smith discloses an inventory management system wherein expected life remaining includes a parameter selected from at least one of the following parameters (§ [0030] discusses a lifespan parameter): a number of power on hours remaining before said item is exhausted (§ [0035] discloses a part replacement notification can be presented when the duration of use reaches 9,000 hours. If user does not decide to order a replacement the unit is monitored until it fails).

As per Claim 14, Smith discloses the inventory management system wherein said expected life remaining includes multiples of said parameters (§ [0009] discusses multiple parameters that encompass expected life remaining of a consumable).

As per Claim 16, Smith discloses an inventory management system wherein said criteria is at least partially based on a threshold that compares expected life of said items with usage of said equipment (§ [0030] discusses on and off cycles and lifespan, which is construed to compare expected life to the usage, in order to determine when replacement is recommended).

As per Claim 17, Smith discloses an electronic interface between said piece of equipment and a provider for supplies of said items wherein said order form is transferred from said piece of equipment to said provider for supplies at a different location from said piece of equipment (See Figure 1, Replacement Part Order Processing system 100 can be operated by a replacement part order center remotely located of the appliances).

As per Claim 18, Smith discloses a method of managing an inventory for serviceable equipment requiring routine maintenance for a plurality of items comprising the steps of (§ [008] discusses a method and a system for automatically ordering replacement of consumable parts of a system);

providing an inventory of replacement parts for said items (Such as inventory tracked in the Inventory Database 104, shown in Figure 1);

associating each of said items with a parameter that provides an estimate of servicing needs for said item (§ [0010] discusses comparator means for comparing the parameter to at least one replacement criterion for the part);

tracking said parameters to identify replenishment needs for said inventory (§ [0010] discusses replacement of consumable parts of a system can include part monitoring means for monitoring at least one parameter for a part of the system); and

generating an order form for replacement parts of said items for said inventory based on estimated needs (§ [0010] discusses replacement criterion indicates that a replacement part should be ordered and order processing means for automatically communicating an order to a replacement part order center for a replacement for the part).

However, Smith fails to disclose wherein said computational element includes a dormancy feature for at least one of said plurality of items, the dormancy feature being activated so that an associated parameter for one or more of the plurality of items is placed in a dormant state so such associated parameters do not become a trigger point for the tracking device to generate an order for said one or more items.

Inami et al. teaches a method of preventing redundant orders by the second and subsequent remaining amount detection processes for a single cartridge (pg.5, § [0076]).

Inami et al. further teaches the number of printed dots is accumulated (pixel count) to have a cancel timing of remaining amount detection as a start point, and whether or not the order placement system is launched is determined in accordance with the remaining amount detection and its accumulated value (pg.5, § [0077]), where

the pixel count value is used as a reference upon determining whether or not the order placement system is launched, and the order placement system is allowed to be launched after timing t_P at which the pixel count value has reached a value when toner in the developing device has been consumed about 50%. That is, the order placement system is inhibited from being launched during a period T_h from timing t_L of remaining amount detection until timing t_P at which the pixel count value has reached a value when toner in the developing device has been consumed about 50% (pg.5, ¶ [0079]). Thus the remaining pixel amount detection and its accumulated pixel value are used as a parameter for an item such as a single cartridge, which inhibits the order placement system from being launched and redundant orders of an expendable are prevented.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the ability to inhibit the order placement system as in Inami et al. in the system executing the method of Smith with the motivation of offering data associated with image formation is accumulated to have a timing associated with order placement as a trigger (Abstract) as taught by Inami et al. over that of Smith.

As per Claim 19, Smith discloses a method of managing an inventory wherein the generating step further comprises generating said order form based on current and future needs of said serviceable equipment (See Figure 3, Step 306 which details the Replacement Part Ordering System 100 where single or multiple parts can be ordered and the use of a part in an appliance can be continually monitored by a part monitor until the part needs to be replaced).

4. **Claims 3-6 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (PG PUB 2003/0172072) in view of Inami et al. (2003/0040984) further in view of Martin et al. (#5,809,479).**

As per Claim 3, the Smith-Inami et al. combination discloses the structural elements of the claimed invention, however, the Smith-Inami et al. combination fails to disclose an inventory management system wherein a criteria includes a delivery time.

Smith, Inami et al. and Martin et al. are within the same field of inventory management. Martin teaches creating a customer order entry for a particular customer and a computer system which is programmed to reference customer preferences database during the order entry process to set preferable delivery dates for individual customers (as discussed in Column 3, lines 28-35).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the inventory management system of the Smith-Inami et al. combination to include the customer order entry and computer that accesses the customer preferences database as taught by Martin et al. The motivation to combine is in order to fulfill customers request based on their preferences.

As per Claims 4-6 the Smith-Inami et al. combination discloses an inventory management system of the claimed invention, however, the Smith-Inami et al. combination fails to disclose an inventory management system wherein a criteria includes a specified set of ship dates, ship dates for identical set of items, and a plurality of optional ship dates.

Smith, Inami et al. and Martin et al. are within the same field of inventory management. Martin teaches a system where, the customers order entry is routed to a human order scheduler for assignment of a targeted ship date. Based upon the information contained in customer preferences database 12 and sales orders database 20, the computer system is programmed to show the order scheduler the calculated customer-preferred ship date and to obtain from the scheduler a targeted ship date for the customer order entry as discussed in Column 3, lines 56-66. Martin further teaches, that a targeted ship date window gives the range of actual ship dates which will result in an on time delivery to the customer, based upon the customer's own rules as discussed in Column 4, lines 17-19.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the inventory management system of the Smith-Inami et al. combination to include the customer order entry and sales order entry as taught by Martin et al. The motivation to combine would be to allow a customer to receive early delivery of items as found in Column 2, lines 63-65.

As per Claims 7 and 8 the Smith-Inami et al. combination discloses an inventory management system of the claimed invention, however, the Smith-Inami et al. combination fails to disclose an inventory management system wherein a criteria is responsive to changes made in shipping dates and adjust to changes.

Smith, Inami et al. and Martin et al. are within the same field of inventory management. Martin teaches a system where, customer preferences might also be

included in database 12, indicating such information as whether customers will allow rescheduling of shipments, calendar holidays for each customer, and/or calendar holidays for the supplier. Customer preferences database 12 will preferably be updated at least once every year for each customer, or as otherwise determined to be needed as found in Column 3, lines 16-26.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the inventory management system of the Smith-Inami et al. combination to include the customer preferences database as taught by Martin et al. The motivation to combine would be to allow the system to adjust for rescheduling of ship dates to allow for on-time deliveries.

5. Claim 9, 10, 15 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (PG PUB 2003/0172072) in view of Inami et al. (2003/0040984) further in view of Aoyama et al. (PG Pub. 2004/0172341).

As per Claim 9-10 and 15, the Smith-Inami et al. combination discloses an inventory management system of the claimed invention, however the Smith-Inami et al. combination fails to disclose a criteria which prevents unnecessary shipping of replenishments for said items by arranging said order form such that shipments can occur based on a cost factor of shipping versus parts cost and provides for early shipping of increased amounts of inexpensive items to avoid additional shipments, as well as having at least a criteria partially based on replacement cost and shipping cost for said item.

Smith, Inami et al. and Aoyama et al. are within the same field of inventory management. Aoyama et al. teaches an external warehouse order system that can determine whether the additional shipping cost to ship the truckload of goods would outweigh the benefit obtained from ordering the larger volume, order data is optimized so as to reduce the cost of goods including shipping costs and to ensure inventory levels and provide delivery services as found in ¶ [0034] to [0035].

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the inventory management system of the Smith-Inami et al. combination to include the external warehouse order system as taught by Aoyama. The motivation to combine would be to decrease shipping cost, storage costs, and to improve the ability to take advantage of volume discounts as found in ¶ [0007].

As per Claim 20, the Smith-Inami et al. combination discloses an inventory management system of the claimed invention, however the Smith-Inami et al. combination fails to disclose the step of generating an order form further comprises establishing a criteria for ordering replacement parts wherein said criteria is used to create a reduced number of said order forms that are generated to replenish said inventory.

Smith, Inami et al. and Aoyama are within the same field of inventory management. Aoyama et al. discloses a forecast management system that can provide forecast data to be generated and transmitted to an order controller system which

creates an order so as to realize price saving that offset potential losses from ordering too many goods as discussed in ¶ [0041].

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the inventory management system of the Smith-Inami et al. combination to include the forecast management system with the step of generating a purchase order as taught by Aoyama. The motivation to would be to reduce the cost of ordered goods including the cost of shipping as found ¶ [0038].

Response to Arguments

6. Applicant's arguments with respect to claims 1 and 18 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Harper (2002/0143642) discusses a process for setting and storing ordering preferences and profile data locally.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ASHFORD HAYLES whose telephone number is (571)270-5106. The examiner can normally be reached on Monday - Friday 8:00 A.M.- 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Gart can be reached on 571-272-3955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elaine Gort/
Primary Examiner, Art Unit 3687

/A. H./
Examiner, Art Unit 3687